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	Application No.	Applicant(s)	
Notice of Allowability	10/628,472 Examiner	MITOMI ET AL. Art Unit	
	Jerry T. Rahll	2874	
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☐ This communication is responsive to telpehone interview with the allowed claim(s) is/are 1-12. 3. ☐ The drawings filed on 29 July 2003 are accepted by the Extended Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the:	ears on the cover sheet wi (OR REMAINS) CLOSED in or other appropriate common IGHTS. This application is so and MPEP 1308. with Elliot Malamud on 16 Malamud	th the correspondence addron this application. If not include unication will be mailed in due subject to withdrawal from issu	ed course, THIS
 Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 	e been received in Application cuments have been received of this communication to file	d in this national stage applica	
 A SUBSTITUTE OATH OR DECLARATION must be submined in INFORMAL PATENT APPLICATION (PTO-152) which gives CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers I) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner' Paper No./Mail Date 	es reason(s) why the oath o st be submitted. son's Patent Drawing Reviev	r declaration is deficient. w (PTO-948) attached	IOTICE OF
Identifying Indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in to 7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	the header according to 37 CF esit of BIOLOGICAL MAT	न्R 1.121(d). ERIAL must be submitted. ।	•
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date	6. ☑ Interview S Paper No. 08), 7. ☑ Examiner's	oformal Patent Application (PTG) ummary (PTO-413), /Mail Date <u>3/16/05</u> . Amendment/Comment Statement of Reasons for Allo	·

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

Notice of Allowability

PRIMARY EXAMINER

Part of Paper No./Mail Date 20050316

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

- 2. Authorization for this examiner's amendment was given in a telephone interview with Elliot Malamud on 16 March 2005.
- 3. Claim 1 is amended to read,
 - "1. An optical waveguide device comprising a substrate and a supporting body for supporting said substrate, said substrate having a main body made of an electrooptic material having one main face and an other main face, an optical waveguide and an electrode provided on the side of said one main face of said main body;

wherein said supporting body is joined with said main body on the side of the other main face, said electrode comprises a feedthrough portion, and said device further comprises a low dielectric portion provided under said feedthrough portion and between the other main face of said main body and said supporting body; and

wherein said main body has a thickness of 100 micrometers or less in a region of said optical waveguide."

4. Claim 6 is amended to read,

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"6. An optical waveguide device comprising a substrate and a supporting body for supporting said substrate, said substrate having a main body made of an electrooptic material having one main face and an other main face, an optical waveguide and an electrode provided on the side of said one main face of said main body;

wherein said supporting body is joined with said main body on the side of the other main face, said electrode comprises a feedthrough portion, and said device further comprises a low dielectric portion provided under said feedthrough portion and between the other main face of said main body and said supporting body; and

wherein said low dielectric portion comprises a resin sheet between said supporting body and the other main face of said main body."

- 5. Claim 10 is amended to read,
 - "10. An optical waveguide device comprising a substrate and a supporting body for supporting said substrate, said substrate having a main body made of an electrooptic material having one main face and an other main face, an optical waveguide and an electrode provided on the side of said one main face of said main body;

wherein said supporting body is joined with said main body on the side of the other main face, said electrode comprises a feedthrough portion, and said device further comprises a low dielectric portion provided under said feedthrough Art Unit: 2874

portion and between the other main face of said main body and said supporting body;

wherein a recess is formed on the side of the other main face of said main body; and

wherein said main body comprises a first thinner portion facing said recess and a second thinner portion facing said recess and having a thickness smaller than that of said first thinner portion, and said optical waveguide is provided in said first thinner portion."

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

- 6. The following is an examiner's statement of reasons for allowance. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 7. Claims 1-12 are allowed.
- 8. Claims 1-5, 9 and 11-12 describes an optical waveguide device having a supporting body with a main body made of electrooptic material having two main faces, where an optical waveguide and an electrode are formed on one main face of the main body, where the supporting body is joined to the main body on the side of the other main face, the electrode having a feedthrough portion and a low dielectric portion is provided under the feedthrough portion and between the other main face and the supporting body, where the main body has a thickness of 100 micrometers or less in a region of the waveguide.

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9. Claims 6-8 describe an optical device having a supporting body with a main body made of electrooptic material having two main faces, where an optical waveguide and an electrode are formed on one main face of the main body, where the supporting body is joined to the main body on the side of the other main face, the electrode having a feedthrough portion and a low dielectric portion is provided under the feedthrough portion and between the other main face and the supporting body, where the low dielectric portion comprises a resin sheet.

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- 10. Claim 10 describes an optical device having a supporting body with a main body made of electrooptic material having two main faces, where an optical waveguide and an electrode are formed on one main face of the main body, where the supporting body is joined to the main body on the side of the other main face, the electrode having a feedthrough portion and a low dielectric portion is provided under the feedthrough portion and between the other main face and the supporting body, where a recess is formed on the side of the other main face of the main body and the main body comprises a first thinner portion facing said recess and a second thinner portion facing said recess and having a thickness smaller than that of said first thinner portion, and said optical waveguide is provided in said first thinner portion.
- 11. U.S. Patent No. 5,991,491 to Madabhushi describes an optical waveguide device having a supporting body with a main body made of electrooptic material having two main faces, where an optical waveguide and an electrode are formed on one main face of the main body, where the supporting body is joined to the main body on the side of the other main face, the electrode having a feedthrough portion and a low dielectric portion is provided under the feedthrough portion and between the other main face and the supporting body. Madabhushi does not describe the main body having a thickness of 100 micrometers or less in a region of the waveguide, the

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portion.

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low dielectric portion comprising a resin sheet or the main body comprises a first thinner portion facing said recess and a second thinner portion facing said recess and having a thickness smaller than that of said first thinner portion, and said optical waveguide is provided in said first thinner

- 12. U.S. Patent No. 5,991,491 to Madabhushi remains the closest prior art of record in this application. For the reasons stated above, however, Claims 1-12 herein are deemed to patentably distinguish over Madabhushi and all other prior art of record.
- 13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry T. Rahll whose telephone number is (571) 272-2356. The examiner can normally be reached on M-Th (8:30-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272-2344. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

T Rahll

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